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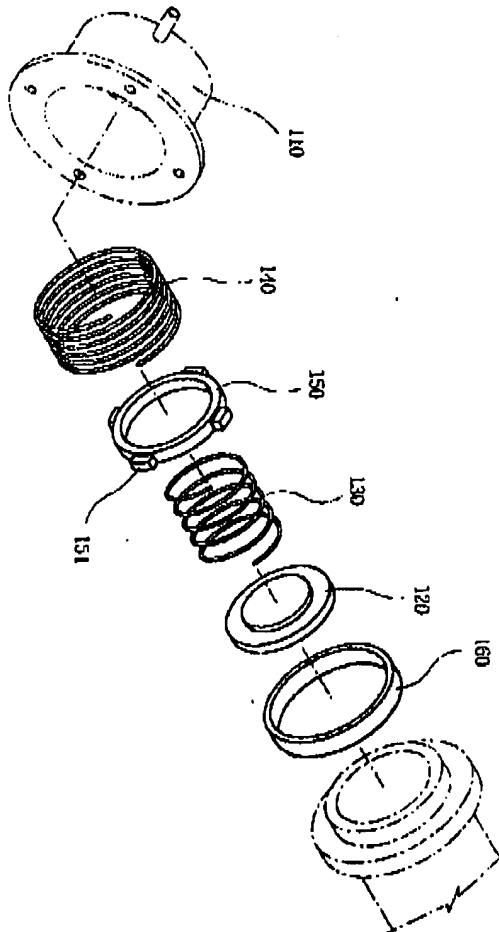
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(30) Priority:

(54) Title of Invention  
DISCHARGE VALVE ASSEMBLY

Representative drawing



(57) Abstract:

**PURPOSE:** A discharge valve assembly is provided to achieve a rapid open/shut-off operation of the valve member by allowing the valve spring to have different spring constants for open operation and shut-off operation of the discharge valve, respectively.

**CONSTITUTION:** A discharge valve assembly comprises a discharge cover (110) for covering a cylinder for insertion of a piston and which is fixed to the front cross section of the cylinder with a discharge space; a discharge valve (120) arranged at the interior of the discharge cover and which opens/shuts off the cylinder by being attached/detached to/from the front cross section of the cylinder during reciprocating motion of the piston; a first valve spring (130) both ends of which are supported at the portion between the inner surface of the discharge cover and the rear surface of the discharge valve; a second valve spring (140) mounted at the interior of the discharge cover and which cooperates with the first valve spring to push the discharge valve toward the cylinder upon the discharge valve shut-off; a valve guide (150) for supporting an end of the second valve spring and which contracts the second valve spring upon the discharge valve opening; and a support ring (160) which forms a stepped portion at the inner periphery of the discharge

cover such that the valve guide is placed onto the support ring upon the discharge valve shut-off.

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